

# PATENT ABSTRACTS OF JAPAN

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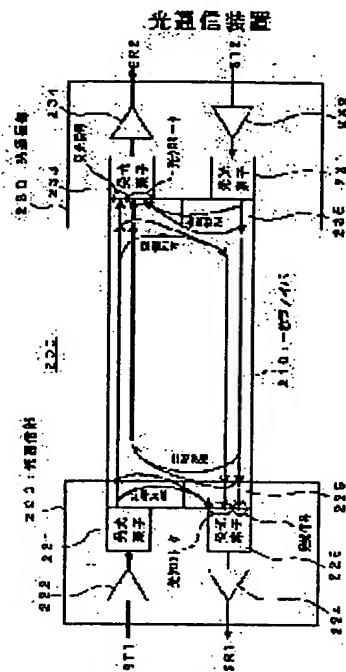
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## (54) OPTICAL COMMUNICATION DEVICE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To enable a full-duplex bidirectional communication which is stable even when there is a difference in light amount loss between different types of light emitting elements used for a first and second optical communication sections, by relatively reducing optical crosstalk components without causing increases in size or in cost and the optical communication section.

**SOLUTION:** The light amount of a transmission light fitted with a one-core fiber 110 from an optical communication section 120 has a width of  $T_{A\min\text{-}max}$ . While the light amount of a transmission light fitted with the fiber 110 from an optical communication section 130 has a width of  $T_{B\min\text{-}max}$  in a state where the light emission amount of a light emitting element 131 is not adjusted, only the maximum value of the transmission light amount is reduced from  $T_{B\max}$  to  $T_{B\max'}$  by providing a light emission amount adjusting section 140 on the section 130 side. By doing this, even when light amount loss  $L_a$  of the transmission light from the section 120 in the fiber 110 is larger than light amount loss  $L_b$  of the transmission light from the section 130 in the fiber 110, optical crosstalk components  $X$  can be relatively reduced in a light receiving element 133.



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